This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (canceled)

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Claim 2 (currently amended): The invention according to claim 1An exhaust aftertreatment filter for internal combustion engine exhaust comprising an axially extending cylindrical filter roll comprising pleated filter media defining a plurality of axially extending flow channels, and having a first open-flow section with open flow channels, and a second filtering section with alternately sealed flow channels forcing exhaust to flow through said pleated filter media, wherein said open-flow section is a central inner section, and said filtering section is an outer annular section around said inner section.

Claim 3 (currently amended): The invention according to claim 1An exhaust aftertreatment filter for internal combustion engine exhaust comprising an axially extending cylindrical filter roll comprising pleated filter media defining a plurality of axially extending flow channels, and having a first open-flow section with open flow channels, and a second filtering section with alternately sealed flow channels forcing exhaust to flow through said pleated filter media, wherein said filter roll is spiral-wound from a sheet having corrugated serpentine pleats extending axially therealong and providing said pleated filter media having said plurality of axially extending flow channels, and comprising first and second axially spaced sealing beads extending laterally across said pleats and alternately sealing said flow channels, said sheet being wound from a starting side to a terminating side, said beads being laterally spaced from one of said starting and terminating sides to provide unsealed flow channels providing said open-flow section of said filter roll when wound.

Claim 4 (original): The invention according to claim 3 wherein said beads are laterally spaced from said starting side.

Claim 5 (original): The invention according to claim 3 wherein said beads are laterally spaced from said terminating side.

Claim 6 (canceled)

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Claim 7 (original): An exhaust aftertreatment filter for filtering internal combustion engine exhaust flowing along an axial direction, comprising an axially extending cylindrical filter roll having a plurality of concentric layers with pleats therebetween defined by wall segments extending radially in corrugated serpentine manner between pleat tips at axially extending bend lines, said wall segments extending axially between first and second distally opposite axial ends, said wall segments defining axial flow channels therebetween, said filter roll having a central inner section, and an outer annular section around said inner section, the wall segments of said outer section being alternately sealed to each other by a first set of plugs to define a first set of flow channels closed by said plugs, and a second set of flow channels interdigitated with said first set of flow channels and having open first axial ends, said wall segments of said outer section being alternately sealed to each other by a second set of plugs axially spaced from said first set of plugs and closing said second set of flow channels, said first set of flow channels having open second axial ends, the wall segments of said inner section defining a third set of flow channels open at both the first and second axial ends.

Claim 8 (original): The invention according to claim 7 wherein the first axial ends of said wall segments of said inner section are axially recessed from the first axial ends of said wall segments of said outer section.

Claim 9 (original): The invention according to claim 8 wherein said filter roll has an inner central face at the first axial ends of said wall segments of said inner section, and an outer annular face at the first axial ends of said wall segments of said outer section, said inner face being spaced axially from said outer face.

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Claim 10 (original): The invention according to claim 7 further comprising in combination an axially extending housing enclosing said filter roll and having axially distally opposite first and second plenums, an inlet port in said first plenum, an outlet port in said second plenum, such that engine exhaust flows into said first plenum from said first inlet port, and then flows in parallel through said inner and outer sections to said second plenum for exit at said outlet port, said engine exhaust flowing from said inlet plenum through said third set of flow channels from the open first axial ends thereof to the open second axial ends thereof then into said second plenum, said engine exhaust also flowing from said inlet plenum into the open first axial ends of said second set of flow channels and then being filtered by passage through said wall segments of said outer section and then flowing out of the open second axial ends of said first set of flow channels into said second plenum.

Claim 11 (original): The invention according to claim 7 further comprising in combination an axially extending housing enclosing said filter roll and having axially distally opposite first and second plenums, an outlet port in said first plenum, an inlet tube supplying engine exhaust to the first axial end of said inner section to supply exhaust to the first axial ends of said third set of flow channels, such that engine exhaust flows through said third set of flow channels from the open first axial ends thereof to the open second axial ends thereof, then into said second plenum wherein exhaust flow reverses and flows into the open second axial ends of said first set of flow channels and then is filtered by passing through said wall segments of said outer section and flows out of the open first axial ends of said second set of flow channels into said first plenum and then to said outlet port.

Claim 12 (original): The invention according to claim 11 wherein said first plenum has an inlet port, and said inlet tube extends from said inlet port through said first plenum to said first axial end of said inner section.

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Amendment dated August 22, 2003

Reply to Office Action of June 30, 2003

Claim 13 (original): The invention according to claim 7 further comprising in combination

an axially extending housing enclosing said filter roll and having axially distally opposite

first and second plenums, an inlet port in said first plenum, an outlet tube extending from the

first axial end of said inner section, such that engine exhaust flows into said first plenum

from said inlet port, then into the open first axial ends of said second set of flow channels

and then is filtered by passing through said wall segments of said outer section and then

flows out of the open second axial ends of said first set of flow channels into said second

plenum wherein exhaust flow reverses and flows through said third set of flow channels

from the open second axial ends thereof to the open first axial ends thereof, then through

said outlet tube.

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Claim 14 (original): The invention according to claim 13 wherein said first plenum has an

outlet port, and said outlet tube extends from said first axial end of said inner section

through said first plenum to said outlet port.

Claim 15 (original): The invention according to claim 7 wherein said filter roll is spiral-

wound from a sheet having said corrugated serpentine pleats thereon, said first and second

sets of plugs being provided by first and second axially spaced sealing beads extending

laterally across said pleats, said sheet being wound from a starting side to a terminating side,

said beads being laterally spaced from said starting side to provide said third set of flow

channels as open unsealed flow channels through said inner section of said filter roll when

wound.

Claim 16 (original): The invention according to claim 15 wherein said sheet has a cut-out

section along said starting side and along said first axial end, such that after said winding,

the first axial ends of said wall segments of said inner section are axially recessed from the

first axial ends of said wall segments of said outer section.

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Claims 17-37 (canceled)